

LISTING OF THE CLAIMS

1. (Currently Amended) A nozzle for a delivery device for fluids comprising:

an inlet side;

~~and an outlet side, the outlet side including at least one nozzle opening; and~~

~~at least two superimposed plates, at least one of the plates produced by microtechnology, so that the plates lying one on top of the other define, on one side, a fluid inlet connected to a channel system and/or a filter system which then opens into one or more fluid outlets.~~

wherein an outer surface of the outlet side includes at least one of elevation and/or depression microstructures and elevation and/or depression nanostructures, which do not include the at least one nozzle opening.

2. (Cancelled).

3. (Original) The nozzle according to claim 1 comprising at least two nozzle openings oriented so that the jets of fluid emerging from them intersect.

4-5. (Cancelled).

6. (Currently amended) The nozzle according to claim 5-1 wherein the nozzle has at least two nozzle outlets oriented towards one another.

7. (Currently Amended) A nozzle system for a device for delivering fluids, comprising:
a nozzle having one or more nozzle openings and an outer surface at a fluid outlet side of the nozzle;

~~at least two superimposed plates, at least one of the plates produced by microtechnology, so that the plates lying one on top of the other define, on one side, a fluid inlet connected to a channel system and/or a filter system which then opens into one or more fluid outlets; and~~

a nozzle holder which comprises a through-bore having a sidewall initiating at a position in communication with the one or more nozzle openings of the fluid outlet side of the nozzle, and terminating at an end face of the nozzle holder, wherein:

at least one of the following surfaces include at least one of elevation and/or depression microstructures and elevation and/or depression nanostructures, which do not include the one or more nozzle openings:

- the outer surface of the fluid outlet side of the nozzle,
- an outer surface of the end face of the nozzle holder, or
- the side wall of the through-bore of the nozzle holder.

8. (Previously Presented) The nozzle system according to claim 7 wherein the through-bore of the nozzle holder widens out continuously from the one or more nozzle openings to the end face thereof.

9. (Previously Presented) A nozzle system for a device for delivering fluids, comprising:
a nozzle having one or more nozzle openings and an outer surface at a fluid outlet side of the nozzle;

a nozzle holder which comprises a through-bore having a sidewall initiating at a position in communication with the one or more nozzle openings of the fluid outlet side of the nozzle, and terminating at an end face of the nozzle holder,

wherein at least one of the following surfaces include at least one of elevation and/or depression microstructures and elevation and/or depression nanostructures:

- the outer surface of the fluid outlet side of the nozzle,
- an outer surface of the end face of the nozzle holder, or
- the side wall of the through-bore of the nozzle holder; and

a check nut engaging the nozzle holder and having an end face and a bore including a side wall thereof, which communicates with the through-bore of the nozzle holder and widens out continuously therefrom, wherein at least one of an outer surface of the end face of the check nut and

the side wall of the bore of the check nut include at least one of microstructures and nanostructures.

10. (Previously Presented) The nozzle system according to claim 8 wherein a side of the through-bore that is remote from the one or more nozzle openings includes at least one of microstructures and nanostructures.

11. (Original) The nozzle system according to claim 7 wherein the nozzle comprises an outlet side and an inlet side.

12. (Original) A delivery device for fluids comprising a nozzle according to claim 1.

13. (Original) A delivery device for fluids comprising a nozzle system according to claim 7.

14. (Original) A delivery device according to claim 13 comprising a lower and an upper housing part mounted to be rotatable relative to one another, the upper part of the housing containing a spring housing with a spring which is tensioned by rotating the two housing parts by means of a locking clamping mechanism and is released by pressing a release button on the upper part of the housing, the spring moving a power take-off flange connected to a piston on the lower end of which a container can be fitted, and at the upper end of which are found a valve and a pressure chamber which is connected for fluid transmission to the nozzle or the nozzle system formed in the upwardly open part of the upper housing part.

15. (Original) The delivery device according to claim 12 wherein the device is an inhaler or atomiser for delivering medicinal or pharmaceutical fluids.

16. (Previously Presented) A delivery device for pharmaceutical fluids according to claim 9, wherein the microstructures or nanostructures include surface structure elevations and/or depressions with a height/depth of 0.1 to 100 microns.

17. (Previously Presented) The delivery device for pharmaceutical liquids according to claim 16 wherein the spacing between the elevations and depressions are in the range from 0.1 to 200 microns.

18. (Previously Presented) The delivery device for pharmaceutical liquids according to claim 16 wherein at least 20% of the corresponding surface include the microstructures or nanostructures.

19. (Original) The delivery device for pharmaceutical liquids according to claim 16 wherein the elevations and/or depressions are formed by hydrophobic materials, glass and/or ceramics and/or metals and/or plastics selected from polyethylene, polypropylene, polycarbonate, polyacrylate, polyester and silanes.

20. (Original) The delivery device for pharmaceutical liquids according to claim 16 wherein the elevations and/or depressions are formed by subtractive or additive treatment of the surfaces, the treatment selected from stamping, etching, laser ablation, galvanic machining, adhesively attaching a structured film, adhesion of a powder, spraying with suspensions and depositing sublimates.